

Claims

1. A cosmetic or dermatological composition for protecting against ultraviolet rays, based on a mixture
5 of mineral screening agents and the organic screening agent having the INN name methylenebis(benzotriazolyl)tetramethylbutylphenol, characterized in that it is in the form of a water-in-oil emulsion and in that it contains at least one emulsifier chosen from the
10 group consisting of silicone derivatives with a glucose component comprising between 2 and 10 glucose units, the particulate inorganic screening agent being uniformly dispersed in the water-in-oil emulsion and its mean particle size being between 1 and 100 nano-
15 meters, and the particulate inorganic screening agent being present in a proportion of from 4% to 40% by weight.

2. The cosmetic or dermatological composition as claimed in claim 1, characterized in that the silicone
20 derivative is chosen from (C₂-C₃₀)alkylsilicones and amino(C₂-C₃₀)alkylsilicones.

3. The cosmetic or dermatological composition as claimed in claim 2, characterized in that the silicone
derivative with a glucose component is ethylhexyl
25 dimethicone ethoxy glucoside or silicone polyglucoside.

4. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that the cosmetic composition also comprises cyclodimethicone.

30 5. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that the proportion of emulsifier is between about 2% and about 30% by weight relative to the total weight of the composition.

35 6. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that the mineral screening agent is a particulate inorganic screening agent chosen from the

group consisting of titanium dioxide and zinc oxide, and mixtures thereof.

7. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that the particulate inorganic screening agent is hydrophobic titanium dioxide, which may be coated.

8. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that it has a viscosity of less than 10 Pa.s (10 000 centipoises) at 25°C.

9. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that it also comprises at least one agent for protecting against the immunosuppression induced by ultraviolet rays, chosen from the group consisting of Aloe vera, vitamin E and the unsaponifiable matter of soybean oil, and mixtures thereof.

10. The cosmetic or dermatological composition as claimed in claim 9, characterized in that the proportion of agent for protecting against the immunosuppression induced by ultraviolet rays is between about 0.05% and about 5% by weight relative to the total weight of the composition.

11. The cosmetic or dermatological composition as claimed in any one of the preceding claims, characterized in that it also comprises at least one agent for protecting the DNA of skin cells, chosen from the group consisting of isoflavones and/or zinc salts.

12. The cosmetic or dermatological composition as claimed in claim 11, characterized in that the agent for protecting skin cells is zinc gluconate.

13. The cosmetic or dermatological composition as claimed in claim 11 or 12, characterized in that the proportion of agent for protecting skin cells is between about 0.01% and about 1% by weight relative to the total weight of the composition.

14. The cosmetic or dermatological composition as

claimed in any one of the preceding claims, characterized in that it also comprises at least one adjuvant chosen from the group consisting of ionic or nonionic thickeners, softeners, antioxidants, opacifiers, stabilizers, emollients, insect repellents, moisturizers, vitamins, fragrances, preserving agents, fillers, sequestrants and dyes, and mixtures thereof.

15 15. An assembly for applying a cosmetic or dermatological composition for protecting against ultraviolet rays, comprising such a composition and a container for this composition, said container consisting of a reservoir and a manually-driven propulsion pump (10, 20, 30), characterized in that the composition is in the form of a water-in-oil emulsion and in that it contains at least one emulsifier chosen from the group consisting of silicone derivatives with a glucose component comprising between 2 and 10 glucose units, the particulate inorganic screening agent being uniformly dispersed in the water-in-oil emulsion and its mean particle size being between 1 and 100 nanometers, and the particulate inorganic screening agent being present in a proportion of from 4% to 40% by weight.

25 16. The assembly as claimed in claim 15, characterized in that the pump is a pump with an intermediate chamber (16) and a sliding member (40) capable of occupying the inner volume of the intermediate chamber (10) to deplete the composition present in this intermediate chamber (10).

30 17. The assembly as claimed in claim 15 or claim 16, characterized in that the pump (10, 20, 30) is a pump with an intermediate chamber (10) surrounded by two nonreturn devices (20, 30) oriented in the direction of outlet of the reservoir, and in that one of the nonreturn devices (20, 30), located adjacent to the reservoir, is an obstruction bead (20).

35 18. The assembly as claimed in any one of claims 15 to 17, characterized in that the pump (10, 20, 30) is equipped with an outlet nozzle (50), the

composition circulation space of which has a diameter of between 4 and 5 mm.

19. The assembly as claimed in any one of claims 15 to 18, characterized in that the pump (10, 20, 30) has an intermediate chamber (10) with a volume of between 100 and 200 μ l.

20. The assembly as claimed in any one of claims 15 to 19, characterized in that the pump has one or more return members for filling the intermediate volume, producing in total a force of greater than 35 N.

21. The assembly as claimed in any one of claims 15 to 20, characterized in that the pump has an intermediate chamber of cylindrical type, the diameter of which is about 8 mm.

22. The assembly as claimed in any one of claims 15 to 21, characterized in that the pump is equipped with a dip tube with an inside diameter of about 3.7 mm.

23. The use of the compositions as claimed in any one of claims 1 to 14 for the manufacture of compositions intended to be diffused via a propulsion pump bottle onto the skin for the purpose of protecting the skin against the harmfulness of and attack by ultraviolet rays.

24. A cosmetic or dermatological skin treatment process for protecting the skin against the harmfulness of and attack by ultraviolet rays and which consists in diffusing from a propulsion pump bottle an effective amount of the composition, using an assembly in accordance with any one of claims 15 to 22.

25. The use of a device of propulsion pump bottle type for applying a composition as claimed in any one of claims 1 to 14 to the skin.